P. . ENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220			
RLL-480WO	ACTION	as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month	/year) (Earliest) Priority Date (day/month/year)			
PCT/IB2004/004281	23/12/2004	30/12/2003			
Applicant		· · · · · · · · · · · · · · · · · · ·			
RANBAXY LABORATORIES LIMIT	red.				
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searce ansmitted to the International Bureau	ching Authority and is transmitted to the applicant			
This International Search Report consists	of a total of 6 she	pte			
	a copy of each prior art document cit				
	' '				
Basis of the report With report to the lenguage the	international sparsh was applied and	and the hoois of the international analysis in the			
language in which it was filed, unli	ess otherwise indicated under this ite	on the basis of the international application in the m.			
The international this Authority (Rul		of a translation of the International application furnished to			
	,	disclosed in the international application, see Box No. I.			
2. Certain claims were fou	nd unsearchable (See Box II).				
3. X Unity of invention is lack	king (see Box III).	•			
 With regard to the title, the text is approved as sul 	hmittad by the applicant				
	hed by this Authority to read as follow	vs:			
	•	-ALKYL SUBSTITUTED AZETIDINONE			
DERIVATIVES					
5. With regard to the abstract,					
X the text is approved as submitted by the applicant.					
the text has been establish may, within one month from	ned, according to Rule 38.2(b), by thi m the date of mailing of this internation	s Authority as it appears in Box No. IV. The applicant onal search report, submit comments to this Authority.			
6. With regard to the drawings,					
a. the figure of the drawings to be p	ublished with the abstract is Figure N	0.			
as suggested by the					
as selected by this	Authority, because the applicant fail	ed to suggest a figure.			
	Authority, because this figure better	characterizes the invention.			
b. none of the figures is to be	published with the abstract.				

INTERN'TIONAL SEARCH REPORT

Inter nal Application No PCT/182004/004281

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D205/08						
According t	According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS	SEARCHED					
Minimum de IPC 7	ocumentation searched (classification system followed by classifical CO7D	tion symbols)				
	tion searched other than minimum documentation to the extent that					
Electronic d	ata base consulted during the international search (name of data b	ase and, where practical, search terms used	J)			
EPO-In	ternal, WPI Data, PAJ, BEILSTEIN Da	ta				
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with Indication, where appropriate, of the re	elevant passages	Relevant to claim No.			
Y X	US 5 856 473 A (SHANKAR ET AL) 5 January 1999 (1999-01-05) cited in the application column 4, lines 24-29 column 2; compound I		1-5,7,13 14-17			
كا	X Further documents are listed in the continuation of box C. X Patent family members are listed in annex.					
A document defining the general state of the lart which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clation or other special reason (as specified) *O* document reterring to an oral disclosure, use. exhibition or other means *P* document published prior to the international filing date but		'Y' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family Date of mailing of the international search report				
13 July 2005						
Name and n	hailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Bérillon, L				

INTERNATIONAL SEARCH REPORT

nal Application No PC1/1B2004/004281

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	-	I Delevent to a later to
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
	FU X ET AL: "Process for preparing Ezetimibe intermediate by an acid enhanced chemo- and enantioselective CBS catalyzed ketone reduction" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 44, no. 4, 20 January 2003 (2003-01-20), pages 801-804, XP004405139 ISSN: 0040-4039		
Y X	cited in the application scheme 1 page 801; compound SCH 58235		1-5,7,13 14-17
Y X	WU G ET AL: "A NOVEL ONE-STEP DIASTEREO-AND ENANTIOSELECTIVE FORMATION OF TRANS-AZETIDINONES AND ITS APPLICATION TO THE TOTAL SYNTHESIS OF CHOLESTEROL ABSORPTION INHIBITORS" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, US, vol. 64, 1999, pages 3714-3718, XP002296009 ISSN: 0022-3263 cited in the application scheme 2 compound 1, SCH 58235		1-5,7,13 14-17
	RAMACHANDRAN ET AL.: "Selective reductions" JOURNAL OF ORGANIC CHEMISTRY, vol. 67, 2002, pages 5315-5319, XP002327477 cited in the application		
Y X	page 5318, eq. (10) scheme 2, last step		1-5,7,13 6
A .	CHEN ET AL.: "Asymetric Synthesis of Substituted 2-Azaspiro'3.5!nonan-1-ones: An Enantioselective Synthesis of the Cholesterol Absorption Inhibitor (+)-SCH 54016" JOURNAL OF ORGANIC CHEMISTRY, vol. 61, 1996, pages 8341-8343, XP002335913 scheme 2 on page 8342		8-12
E	WO 2005/049592 A (HETERO DRUGS LIMITED; PARTHASARADHI REDDY, BANDI; RATHNAKAR REDDY, KUR) 2 June 2005 (2005-06-02) scheme A on page 2		8-12

4

ational application No. PCT/IB2004/004281

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5, 7, 13

Claims 1-5, 7 and 13 relate to a process for the preparation of compounds of formula I starting from compound II.

1.1. claims: 14-17

Claims 14-17 are "product by process" claims directed to Ezetimide.

2. claims: 6, 8-12

Claims 6, 8-12 relate to a process for the preparation of Ezetimibe using compound I as starting material

INTERNATIONAL SEARCH REPORT

Inform. a on patent family members

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5856473	Α	05-01-1999	AU. WO	7472896 A 9716424 A1	22-05-1997 09-05-1997
WO 2005049592	Α	02-06-2005	WO	2005049592 A1	02-06-2005

Form PCT/ISA/210 (patent family annex) (January 2004)